

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/735,357
Source: IFWO
Date Processed by STIC: 11/5/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/735,357

TIME: 12:52:28

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

```

3 <110> APPLICANT: Bao, Yijia P.
4     Marla, Sudhakar S.
5     Muller, Uwe
6     Storhoff, James J.
7     Hagenow, Susan R.
9 <120> TITLE OF INVENTION: Direct SNP Detection with Unamplified DNA
11 <130> FILE REFERENCE: 02-1227-A
13 <140> CURRENT APPLICATION NUMBER: 10/735,357
14 <141> CURRENT FILING DATE: 2003-12-12
16 <150> PRIOR APPLICATION NUMBER: US 60/432,772
17 <151> PRIOR FILING DATE: 2002-12-12
19 <150> PRIOR APPLICATION NUMBER: US 60/433,442
20 <151> PRIOR FILING DATE: 2002-12-12
22 <160> NUMBER OF SEQ ID NOS: 78
24 <170> SOFTWARE: PatentIn version 3.3
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 22
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Synthetic oligonucleotide
34 <400> SEQUENCE: 1
35 gatgaaatcg gctcccgag ac                                     22
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 22
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Synthetic Oligonucleotide
46 <400> SEQUENCE: 2
47 atgaaatcga ctcccgaga ca                                     22
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 24
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Synthetic oligonucleotide
58 <400> SEQUENCE: 3
59 tggacaggcg aggaatacag gtat                                   24
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 26
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial sequence

```

RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/735,357

TIME: 12:52:28

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

```

67 <220> FEATURE:
68 <223> OTHER INFORMATION: Synthetic oligonucleotide
70 <400> SEQUENCE: 4
71 ctggacaggc aaggaataca ggtatt 26
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 22
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Synthetic oligonucleotide
82 <400> SEQUENCE: 5
83 ctccagcgagc ctcaatgctc cc 22
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 23
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Synthetic oligonucleotide
94 <400> SEQUENCE: 6
95 ctctcagcaa gcctcaatgc tcc 23
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 47
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Synthetic oligonucleotide
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (1)..(1)
110 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide linker
112 <400> SEQUENCE: 7
113 tcctggaacc aatcccgtga aagaattatt tttgtgtttc taaaact 47
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 58
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic oligonucleotide
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (1)..(1)
128 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide linker
130 <400> SEQUENCE: 8
131 aaagatcccg gggacgatgg ggcaagtgat gcccatgtcg gtgcatgcct tcacaaag 58
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 46
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial sequence
139 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/735,357

TIME: 12:52:28

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

```

140 <223> OTHER INFORMATION: Synthetic oligonucleotide
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <222> LOCATION: (1)..(1)
146 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide linker
148 <400> SEQUENCE: 9
149 ccacagaaaa tgatgcccgag tgcttaacaa gaccatacta cagtga      46
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 47
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Synthetic oligonucleotide
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (1)..(1)
164 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide connecting unit covalently
attached
165         to gold nanoparticle
167 <400> SEQUENCE: 10
168 tcctggaacc aatcccgtaga agaattatt tttgtgttc taaaact      47
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 58
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic oligonucleotide
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (1)..(1)
183 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide connecting unit covalently
attached
184         to gold nanoparticle
186 <400> SEQUENCE: 11
187 aaagatcccg gggacgatgg ggcaagtgat gcccatgtcg gtgcatgcct tcacaaag      58
190 <210> SEQ ID NO: 12
191 <211> LENGTH: 46
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Synthetic oligonucleotide
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (1)..(1)
202 <223> OTHER INFORMATION: 5'- epiandrosterone disulfide connecting unit covalently
attached
203         to gold nanoparticle
205 <400> SEQUENCE: 12
206 ccacagaaaa tgatgcccgag tgcttaacaa gaccatacta cagtga      46
209 <210> SEQ ID NO: 13
210 <211> LENGTH: 20
211 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/735,357

TIME: 12:52:28

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

```

212 <213> ORGANISM: Artificial sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Synthetic oligonucleotide
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (20)..(20)
221 <223> OTHER INFORMATION: 3'- (PEG)3-NH2
223 <400> SEQUENCE: 13
224 ggacaggcga ggaatacagg                                20
227 <210> SEQ ID NO: 14
228 <211> LENGTH: 21
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Synthetic oligonucleotide
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (21)..(21)
239 <223> OTHER INFORMATION: 3'- (PEG)3-NH2
241 <400> SEQUENCE: 14
242 tggacaggca aggaatacag g                                21
245 <210> SEQ ID NO: 15
247 <400> SEQUENCE: 15
W--> 248 000
250 <210> SEQ ID NO: 16
252 <400> SEQUENCE: 16
W--> 253 000
255 <210> SEQ ID NO: 17
256 <211> LENGTH: 21
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Synthetic oligonucleotide
263 <400> SEQUENCE: 17
264 ttctatttcc gtactactga c                                21
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 27
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Synthetic oligonucleotide
275 <400> SEQUENCE: 18
276 ttctatttcc gtactactga cgtaact                            27
279 <210> SEQ ID NO: 19
280 <211> LENGTH: 21
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Synthetic oligonucleotide

```

RAW SEQUENCE LISTING

DATE: 11/05/2004

PATENT APPLICATION: US/10/735,357

TIME: 12:52:28

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

```

287 <400> SEQUENCE: 19
288 ccattcttct caaactatcg t 21
291 <210> SEQ ID NO: 20
292 <211> LENGTH: 21
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Synthetic oligonucleotide
299 <400> SEQUENCE: 20
300 ccattcttca ctaactatcg c 21
303 <210> SEQ ID NO: 21
304 <211> LENGTH: 22
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Synthetic oligonucleotide
311 <400> SEQUENCE: 21
312 cacactccat tcttctcaaa ct 22
315 <210> SEQ ID NO: 22
316 <211> LENGTH: 22
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic oligonucleotide
323 <400> SEQUENCE: 22
324 cacactccat tcttcactaa ct 22
327 <210> SEQ ID NO: 23
328 <211> LENGTH: 19
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Synthetic oligonucleotide
335 <400> SEQUENCE: 23
336 atatgacttc ccaggtgac 19
339 <210> SEQ ID NO: 24
340 <211> LENGTH: 18
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Synthetic oligonucleotide
347 <400> SEQUENCE: 24
348 gtagatactt acattcca 18
351 <210> SEQ ID NO: 25
352 <211> LENGTH: 18
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic oligonucleotide
359 <400> SEQUENCE: 25

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/735,357

DATE: 11/05/2004

TIME: 12:52:29

Input Set : A:\02-1227-A SeqListing.ST25.txt

Output Set: N:\CRF4\11052004\J735357.raw

L:248 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (15) SEQUENCE:

L:253 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (16) SEQUENCE: